

U.S. Nuclear Regulatory Commission Capacity Building through Nuclear Cooperation and Assistance

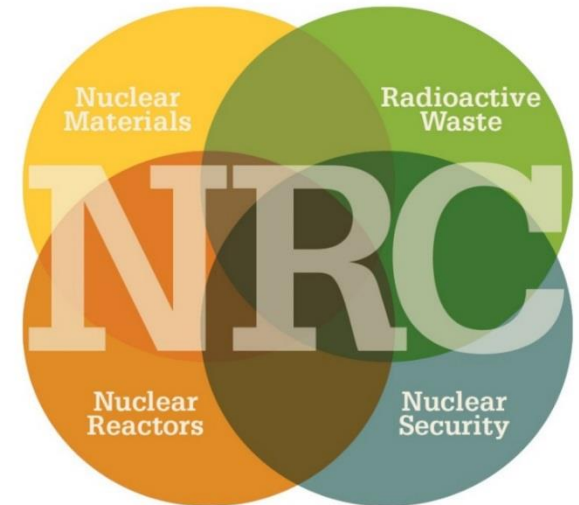
**U.S. Side Event at NPT PrepCom
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Overview

- NRC and NPT
 - What is the NRC?
 - NPT Articles III, IV and the NRC
- NRC International Cooperation
 - Bilateral arrangements
 - Foreign assignee program
 - Multilateral cooperation
- NRC Assistance Partnerships
 - International Regulatory Development Partnership (IRDP)
 - Radiation Sources Regulatory Partnership (RSRP)
- NRC Export-Import Licensing and Safeguards Reporting

NRC Areas of Regulation



What is the NRC?

- *The NRC seeks to ensure the safe use of radioactive materials for civilian purposes while protecting people and the environment. The NRC regulates U.S. commercial nuclear power plants and other civilian uses of nuclear materials, such as in nuclear medicine, through licensing, inspection and enforcement of its requirements.*
- The NRC's regulatory mission covers three main areas:
 - **Commercial Reactors** – Commercial reactors for generating electricity, research and test reactors, and new reactor designs
 - **Nuclear Materials** – Uses of nuclear materials in medical, industrial, and academic settings and facilities that produce nuclear fuel
 - **Waste** – Transportation, storage, and disposal of nuclear materials and waste, and decommissioning of nuclear facilities

Articles III, IV and the NRC

- The NRC participates in and supports, in conformity with U.S. law, the fullest possible exchange of equipment, materials, and scientific and technology information for the peaceful uses of nuclear energy; and ensures compliance with international safeguard commitments
 - Proactively engages in international activities
 - Furthers safe and secure use of nuclear energy
 - Builds regulatory capacity in nuclear power and radiation source programs
 - Licenses nuclear materials and equipment for export and import
 - Reports to IAEA for safeguard purposes



NRC's International Cooperation

- Bilateral arrangements
 - Bilateral technical/regulatory agreements
 - Research specific agreements
- Foreign assignee program
- Multilateral cooperation
 - IAEA, NEA and ICRP



NRC's Bilateral Arrangements

- Arrangements with states that have nuclear materials and operating reactor programs
 - ~40 bilateral arrangements through agreements and memorandums of cooperation/understanding
- Arrangements facilitate the exchange of technical information
 - Share safety, security and/or regulatory information
 - Increasing awareness of regulatory principles and adherence to safety culture
- Research specific agreements

NRC's Bilateral Arrangements - Research Specific Agreements



- Research agreements that provide access to international expertise and research facilities
 - 100+ Research agreements
- Illustrative Topics: seismic hazards, risk-informed activities, fuel behavior, materials science, fire modeling, loss-of-coolant accident analyses



NRC's Foreign Assignee Program



- Launched in 1974 to assist countries embarking on new nuclear programs
 - Expanded to consider all counterpart countries
- Objective:
 - To instill regulatory awareness, capabilities and commitments to safety in foreign assignees from countries with less nuclear regulatory experience
 - To share and mutually enhance regulatory expertise and excellence with assignees from countries with advanced nuclear programs

NRC's Multilateral Cooperation



- International Atomic Energy Agency (IAEA)
 - Safety, Safeguards, Security, Technical Assistance
- Organisation for Economic Co-operation and Development (OECD) Nuclear Energy Agency (NEA)
 - NPP Safety, Emergency Preparedness, and Research
- International Commission On Radiological Protection (ICRP)



NRC's International Assistance Partnerships

- NRC assistance partnerships for regulatory program development
 - International Regulatory Development Partnership (IRDP)
 - Radiation Sources Regulatory Partnership (RSRP)

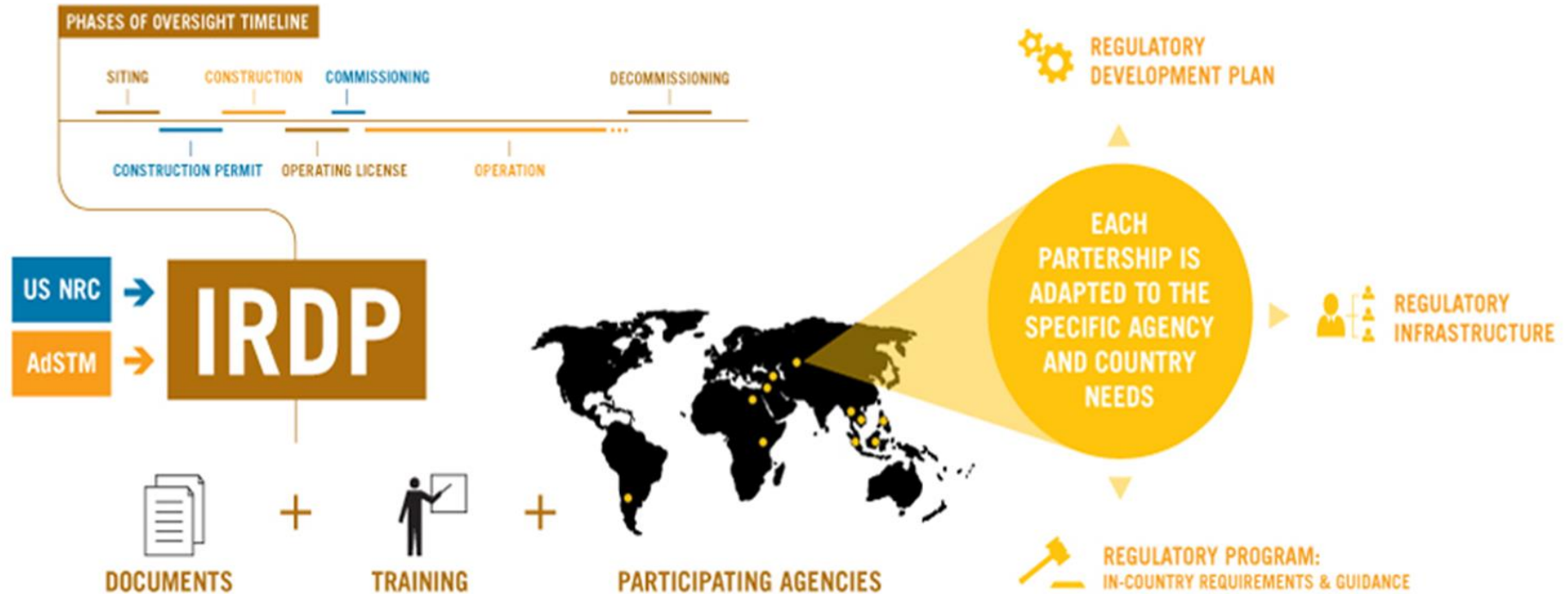


International Regulatory Development Partnership (IRDP)

- Assists new or expanding nuclear power programs in developing organizational and programmatic resources for regulatory oversight
- Accomplishes assistance through:
 - In-country workshops that cover the entire process for commissioning a reactor
 - Technical exchanges and consultation on regulatory program planning and development
 - Peer review of regulatory documents



Assisting countries with emerging nuclear power programs to develop regulatory agencies capable of licensing and regulatory oversight for operation of new reactors.



Further details about International Regulatory Development Partnership activities, workshop materials, and guidance documents can be obtained by visiting <http://irdp-online.org> and registering for a Login ID

Radiation Sources Regulatory Partnership (RSRP)



- Assists and supports international partners to strengthen regulatory controls to improve the safe and secure use of radioactive sources
- Accomplishes assistance through:
 - In-country workshops that cover legislation, regulation, licensing, and inspections
 - Supporting partner agencies with supplementary physical infrastructure
 - Help develop regulatory information systems
 - Peer review of regulatory documents
 - Organizes users group meetings



U.S. NRC
RADIATION SOURCES
REGULATORY PARTNERSHIP



Further details about RSRP Programs and Partners can be obtained online at <http://rsrp-online.org> and registering for a Login ID

Export/Import Licensing and Safeguards Reporting

- All exports and imports of NRC-controlled commodities (materials and equipment) must be authorized by a license
- USNRC address the IAEA Code of Conduct on the Safety and Security of Radioactive Sources and its Import/ Export Guidance
- The USNRC provides safeguards reports under the U.S.-IAEA safeguards agreement and Additional Protocol, including reports on exports

Thank you for your attention!



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NRC Website: www.nrc.gov

NRC Information Digest 2016-2017:

<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/>

